

Substitute for form 1449A/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/633,630
				Filing Date	August 5, 2003
				First Named Inventor	Jörg Kaufmann
				Art Unit	1635
				Examiner Name	Kimberly Chong
Sheet	1	of	9	Attorney Docket Number	ST-101XT

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
U1	US- 60/352,873		02-01-2002	Damha, M. J. et al.	All
U2	US-60/358,580		02-20-2002	Beigelman, L et al.	All
U3	US-60/363,124		03-11-2002	Beigelman, L. et al.	All
U4	US-60/386,782		06-06-2002	Beigelman, L. et al.	All
U5	US-2003/0135033 A1		07-17-2003	Klippel-Giese, A. et al.	All
U6	US-2004/0106569 A1		06-03-2004	Klippel-Giese, A. et al.	All
U7	US-2004/0180351 A1		09-16-2004	Giese, K., et al.	All
U8	US-2005/0043263 A1		02-24-2005	Giese, K., et al.	All
U9	US-2006/0217329 A1		09-28-2006	Feinstein, E.	All
U10	US-2006/0240022 A1		10-26-2006	Klippel-Giese, A. et al.	All
U11	US- 4,217,294		08-12-1980	Petty, H.E.	All
U12	US- 5,466,786		11-14-1995	Buhr, C. A. et al.	All
U13	US- 5,589,389		12-31-1996	Pages, E. et al.	All
U14	US- 5,670,633		09-23-1997	Cook, P. D. et al.	All
U15	US- 5,792,847		08-11-1998	Buhr, C.A. et al.	All
U16	US- 5,872,232		02-16-1999	Cook, P.D. et al.	All
U17	US- 5,898,031		04-27-1999	Crooke, S.T.	All
U18	US- 5,914,396		06-22-1999	Cook, P.D. et al.	All
U19	US- 6,005,087		12-21-1999	Cook, P.D. et al.	All
U20	US- 6,129,912		10-10-2000	Hortin, G. L. et al.	All
U21	US- 6,153,737		11-28-2000	Manoharan, M. et al.	All
U22	US- 6,284,267		09-04-2001	Aneja, R.	All
U23	US- 6,476,205		11-05-2002	Buhr, C. A. et al.	All

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

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Art Unit	1635
Examiner Name	Kimberly Chong

Sheet

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		Number - Kind Code ² (if known)			
	U24	US- 6,506,559	01-14-2003	Fire, A. et al.	All
	U25	US- 6,531,584	03-11-2003	Cook, P.D. et al.	All
	U26	US- 6,812,204	11-02-2004	McHale, A. P. et al.	All
	U27	US- 7,056,704	06-06-2006	Tuschl, T. et al.	All
	U28	US- 7,074,863	07-11-2006	Ekhholm, P. et al.	All
	U29	US- 7,078,196	07-18-2006	Tuschl, T. et al.	All
	U30	US- 7,138,517	11-21-2006	Cook, P.D. et al.	All
	U31	US- 7,148,342	12-12-2006	Tolentino, M. J. et al.	All
	U32	US- 7,196,184	03-27-2007	Heidenreich, O. et al.	All
	U33	US- 2003/0027783	02-06-2003	Zernicka-Goetz, M. et al.	All
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	U37	US- 2004/0102408	05-27-2004	Kreutzer, R. et al.	All
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	U40	US- 2006/0094678	05-04-2006	Vornlocher, H. et al.	All
	U41	US- 2006/0142226	06-29-2006	Polisky, B. et al.	All
	U42	US- 2007/0027097	02-01-2007	Lewis, D. L.	All
	U43	US-2007/0093445	04-26-2007	Tuschl, T. et al.	All
	U44	US- 2007/0135372	06-14-2007	MacLachlan, I. et al.	All
	U45	US- 2007/0265220	11-15-2007	Rossi, J. J. et al.	All
	U46	US- 2004/0175703	09-09-2004	Kreutzer, R. et al.	All
	U47	US-7,348,314	03-25-2008	John, M. et al.	All

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				Art Unit	1635
				Examiner Name	Kimberly Chong
				Attorney Docket Number	ST-101XT

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		Country Code ³	- Number ⁴ - Kind Code ⁵ (if known)			
	F1	EP-	02018572.4	08-14-2002	Atugen AG	All
	F2	WO	03/064441 A2	08-07-2003	McGill University	All
	F3	EP-	1 214 945 B1	06-08-2005	Alnylam Europe AG	All
	F4	EP-	1 230 375 B1	07-06-2005	Cancer Research Technology Ltd	All
	F5	EP-	1 407 044 B1	09-19-2007	Max-Planck- Gesellschaft	All
	F6	EP-	1 798 285 A1	06-20-2007	Ainylam Europe AG	All
	F7	EP-	1 550 719 A1	07-06-2005	Ainylam Europe AG	All
	F8	EP-	1 527 176 B1	01-03-2007	Atugen AG	All
	F9	GB-	2417727 B	01-16-2008	Alnylam Europe AG	All
	F10	WO	2007/048244 A2	05-03-2007	Topigen Pharmaceuticals, Inc.	All
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	F12	WO	02/055693 A2	07-18-2002	Ribopharma AG	All
	F13	WO	2004/015107 A3	02-19-2004	Atugen AG	All
	F14	WO	2004/019973 A1	03-11-2004	Atugen AG	All
	F15	WO	2004/035615 A2	04-29-2004	Atugen AG	All
	F16	WO	2005/000320 A2	01-06-2005	Atugen AG	All
	F17	WO	2005/105152	11-10-2005	Atugen AG	All

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	F18	WO 2006/023544 A2	03-02-2006	Quark Biotech, Inc. <i>et al.</i>	All
	F19	WO 2006/069782 A2	07-06-2006	Atugen AG	All
	F20	WO 2007/084684 A2	07-26-2007	Quark Biotech, Inc. <i>et al.</i>	
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	F22				
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Sheet	5	of	9	Application Number	10/633,630
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	R1	AMARZGUIQUI, M. et al. "Tolerance for mutations and chemical modifications in a siRNA", <i>Nucleic Acids Research</i> , 2003, pp. 589-595, Vol. 31, No. 2.			
	R2	BERTRAND, J. et al. "Comparison of antisense oligonucleotides and siRNAs in cell culture and in vivo", <i>Biochemical and Biophysical Research Communications</i> , 2002, pp. 1000-1004, Vol. 296.			
	R3	BILLY, E. et al. "Specific interference with gene expression induced by long, double-stranded RNA in mouse embryonal teratocarcinoma cell lines", <i>PNAS</i> , December 4, 2001, pp. 14428-14433, Vol. 98, No. 25.			
	R4	BOUTLA, A. et al. "Short 5'-phosphorylated double-stranded RNAs induce RNA interference in <i>Drosophila</i> ", <i>Current Biology</i> , November 13, 2001, pp. 1776-1780, Vol. 11.			
	R5	BRAASCH, D.A. et al. "RNA Interference in Mammalian Cells by Chemically-Modified RNA", <i>Biochemistry</i> , 2003, pp. 7967-7975, Vol. 42.			
	R6	BROWN, K. M. et al. "Target accessibility dictates the potency of human RISC", <i>Nature Structural & Molecular Biology</i> , May 2005, pp. 469-470, Vol. 12, No. 5.			
	R7	CHIU, Y. et al. "RNAi in Human Cells: Basic Structural and Functional Features of Small Interfering RNA", <i>Molecular Cell</i> , September 2002, pp. 549-561, Vol. 10.			
	R8	CLAYTON, J. "The Silent Treatment", <i>Nature</i> , September 30, 2004, pp.599-605, Vol. 431.			
	R9	CLEMENS, M. J. "PKR- A Protein Kinase Regulated by Double-stranded RNA", <i>Int. J. Biochem. Cell Biol.</i> , 1997, pp. 945-949, Vol. 29, No. 7.			
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	R11	CROOKE, R. M. et al. "Metabolism of Antisense Oligonucleotides in Rat Liver Homogenates", <i>The Journal of Pharmacology and Experimental Therapeutics</i> , 2000, pp. 140-149, Vol. 292.			
	R12	CZAUDERNA, F. et al. "Functional Studies of the PI(3)-kinase signaling pathway employing synthetic and expressed siRNA", <i>Nucleic Acids Research</i> , 2003, pp. 670-682, Vol. 31, No. 2.			

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	R13	DORSETT, Y. et al. "siRNAs: Applications in Functional Genomics and Potential as Therapeutics", <i>Drug Discovery</i> , April 2004, pp. 318-329, Vol. 3.			
	R14	GARY, D. J. et al. "Polymer-based siRNA delivery: Perspectives on the fundamental and phenomenological distinctions from polymer-based DNA delivery", <i>Journal of Controlled Release</i> , 2007, pp. 64-73, Vol. 121.			
	R15	HALL, I. M. et al. "Establishment and Maintenance of a Heterochromatin Domain", <i>Science</i> , September 27, 2002, pp. 2232-2237, Vol. 297.			
	R16	HAMMOND, S. M. et al. "Argonaute2, a Link Between Genetic and Biochemical Analyses of RNAi", <i>Science</i> , August 10, 2001, pp. 1146-1150, Vol. 293.			
	R17	HAMMOND, S.M. et al. "An RNA-directed nuclease mediates post-transcriptional gene silencing in <i>Drosophila</i> cells", <i>Nature</i> , March 16, 2000, pp. 293-296, Vol. 404.			
	R18	HANNON, G. J. "RNA interference", <i>Nature</i> , July 11, 2002, pp. 244-251, Vol. 418.			
	R19	HARBORTH, J. et al. "Sequence, Chemical, and Structural Variation of Small Interfering RNAs and Short Hairpin RNAs and the Effect on Mammalian Gene Silencing", <i>Antisense and Nucleic Acid Drug Development</i> , 2003, pp. 83-105, Vol. 13.			
	R20	HOERTER, J. A. et al. "Chemical Modification Resolves the Asymmetry of siRNA Strand Degradation in Human Blood Serum", <i>RNA</i> , 2007, pp. 1-7, Vol. 13.			
	R21	HU, X. et al. "Relative gene-silencing efficiencies of small interfering RNAs targeting sense and antisense transcripts from the same genetic locus", <i>Nucleic Acids Research</i> , 2004, pp. 4609-4617, Vol. 32, No. 15.			
	R22	INOUE, A. et al. "Molecular Design and Delivery of siRNA", <i>Journal of Drug Targeting</i> , 2006, pp. 448-455, Vol. 14, No. 7.			
	R23	JACKSON, A. L. et al. "Position-specific chemical modification of siRNAs reduces "off-target" transcript silencing", <i>RNA</i> , 2006, pp. 1197-1205, Vol. 12.			
	R24	KLIPPEL, A. et al. "The Interaction of Small Domains between the Subunits of Phosphatidylinositol 3-Kinase Determines Enzyme Activity", <i>Molecular and Cellular Biology</i> , April 1994, pp. 2675-2685, Vol. 14, No. 4.			

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	R25	KOLLER, E. et al. "Competition for RISC binding predicts <i>in vitro</i> potency of siRNA", <i>Nucleic Acids Research</i> , 2006, pp. 4467-4476, Vol. 34, No. 16.			
	R26	LAYZER, J. M. et al. "In vivo activity of nuclease-resistant siRNAs", <i>RNA</i> , 2004, pp. 766-771, Vol. 10.			
	R27	LEENDERS, F. et al. "PKN3 is required for malignant prostate cell growth downstream of activated PI 3-kinase", <i>The EMBO Journal</i> , 2004, pp. 3303-3313, Vol. 23, No. 16.			
	R28	LIMA, W. F. et al. "Structural Requirements at the Catalytic Site of the Heteroduplex Substrate for Human RNase H1 Catalysis", <i>The Journal of Biological Chemistry</i> , August 27, 2004, pp. 36317-36326, Vol. 279, No. 35.			
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	R30	MANOHARAN, M. "RNA interference and chemically modified small interfering RNAs", <i>Current Opinion in Chemical Biology</i> , 2004, pp. 570-579, Vol. 8.			
	R31	MARTINEZ, J. et al. "RISC is a 5' phosphomonoester-producing RNA endonuclease", <i>Genes & Development</i> , 2004, pp. 975-980, Vol. 18.			
	R32	MARTINEZ, J. et al. "Single-Stranded Antisense siRNAs Guide Target RNA Cleavage in RNAi", <i>Cell</i> , September 6, 2002, pp. 563-574, Vol. 110.			
	R33	MORRISSEY, D. V. et al. "Chemical Modification of Synthetic siRNA", <i>Pharmaceutical Discovery</i> , May 13, 2005.			
	R34	OLIVEIRA, S. et al. "Targeted Delivery of siRNA", <i>Journal of Biomedicine and Biotechnology</i> , 2006, pp. 1-9, Vol. 2006.			
	R35	PADDISON, P. J. et al. "Stable suppression of gene expression by RNAi in mammalian cells", <i>PNAS</i> , February 5, 2002, pp. 1443-1448, Vol. 99, No. 3.			
	R36	PANCOSKA, P. et al. "Efficient RNA interference depends on global context of the target sequence: quantitative analysis of silencing efficiency using Eulerian graph representation of siRNA", <i>Nucleic Acids Research</i> , 2004, pp. 1469-1479, Vol. 32, No. 4.			

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
Sheet	8	of	9	Application Number	10/633,630
				Filing Date	August 5, 2003
				First Named Inventor	Jörg Kaufmann
				Group Art Unit	1635
				Examiner Name	Kimberly Chong
				Attorney Docket Number	ST-101XT

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	R37	PARRISH, S. <i>et al.</i> "Functional Anatomy of a dsRNA Trigger: Differential Requirement for the Two Trigger Strands in RNA Interference", <i>Molecular Cell</i> , November 2000, pp. 1077-1087, Vol. 6.			
	R38	PATEL, D. J. <i>et al.</i> "Structural Biology of RNA Silencing and Its Functional Implications", <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2006, pp. 81-93, Vol. LXXI.			
	R39	PEEK, A. S. <i>et al.</i> "Design of Active Small Interfering RNAs", <i>Current Opinion in Molecular Therapeutics</i> , 2007, pp. 110-118, Vol. 9, No. 2.			
	R40	PEI, Y. <i>et al.</i> "On the Art of Identifying Effective and Specific siRNAs", <i>Nature Methods</i> , September 2006, pp. 670-676, Vol. 3, No. 9.			
	R41	POTERA, C. "Antisense- down, but not out", <i>Nature Biotechnology</i> , May 2007, pp. 497-499, Vol. 25, No. 5.			
	R42	RANA, T. M. "Illuminating the silence: understanding the structure and function of small RNAs", <i>Molecular Cell Biology</i> , January 2007, pp. 23-36, Vol. 8.			
	R43	RAND, T. A. <i>et al.</i> "Argonaute2 Cleaves the Anti-Guide Strand of siRNA during RISC Activation", <i>Cell</i> , November 18, 2005, pp. 621-629, Vol. 123.			
	R44	ROSSI, J. J. "A Cholesterol connection in RNAi", <i>Nature</i> , November 11, 2004, pp. 155-156, Vol. 432.			
	R45	SANTEL, A. "Get the balance right: Mitofusins roles in health and disease", <i>Biochimica et Biophysica Acta</i> , 2006, pp. 490-499, Vol. 1763.			
	R46	SANTEL, A. <i>et al.</i> "RNA interference in the mouse vascular endothelium by systemic administration of siRNA-lipoplexes for cancer therapy", <i>Gene Therapy</i> , 2006, pp. 1360-1370, Vol. 13.			
	R47	SANTEL, A. <i>et al.</i> "A novel siRNA-lipoplex technology for RNA interference in the mouse vascular endothelium", <i>Gene Therapy</i> , 2006, pp. 1222-1234, Vol. 13.			
	R48	SCHERER, L. J. <i>et al.</i> "Approaches for the sequence-specific knockdown of mRNA", <i>Nature Biotechnology</i> , December 2003, pp. 1457-1465, Vol. 21, No. 12.			

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	R49	SCHWARZER, R. et al. "TRB3 is a PI 3-kinase dependent indicator for nutrient starvation", <i>Cellular Signalling</i> , 2006, pp. 899-909, Vol. 18.			
	R50	SNOVE, O. et al. "Chemical Modifications Rescue Off-Target Effects of RNAi", <i>ACS Chemical Biology</i> , 2006, pp. 274-276, Vol. 1, No. 5.			
	R51	TURNER, J. J. et al. "MALDI-TOF mass spectral analysis of siRNA degradation in serum confirms an RNase A-like activity", <i>Molecular BioSystems</i> , 2007, pp. 43-50, Vol. 3.			
	R52	TUSCHL, T. "Expanding small RNA interference", <i>Nature Biotechnology</i> , May 2002, pp. 446-448, Vol. 20.			
	R53	TUSCHL, T. et al. "Small Interfering RNAs: A Revolutionary Tool for the Analysis of Gene Function and Gene Therapy", <i>Molecular Interventions</i> , June 2002, pp. 158-167, Vol. 2, Issue 3.			
	R54	VOLPE, T. A. et al. "Regulation of Heterochromatic Silencing and Histone H3 Lysine-9 Methylation by RNAi", <i>Science</i> , September 13, 2002, pp. 1833-1837, Vol. 297.			
	R55	WILSON, C. et al. "Building oligonucleotide therapeutics using non-natural chemistries", <i>Current Opinion in Chemical Biology</i> , 2006, pp. 607-614, Vol. 10.			
	R56	Delivery Note, 2 pages, December 20, 2001.			
	R57				
	R58				
	R59				
	R60				

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